

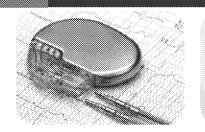
Why we are here today	
Pollution is increasing health risks in your neighborhood.	
We are working to reduce this risk in three ways.	
We want to hear from you.	
	5

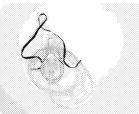
## What is Ethylene Oxide?

### Gas: Colorless, Flammable, Odorless

(in concentrations we see in communities)

Sterilization Services of Tennessee uses EtO to sterilize medical and dental equipment.







Current knowledge suggests these risks are not a concern

No indication of non-cancer risk:

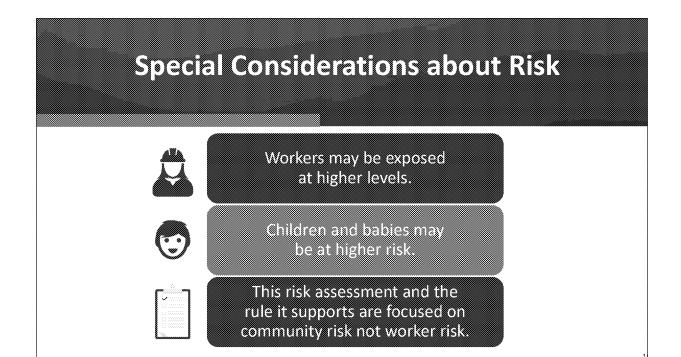
- From soil or water
- Acute or emergency health impacts
- From consumer use of products made with or sterilized with EtO



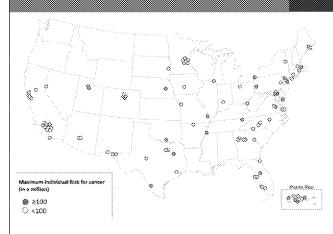
# Over your lifetime

Breathing in EtO over many years can cause breast cancer and white blood cell cancer.

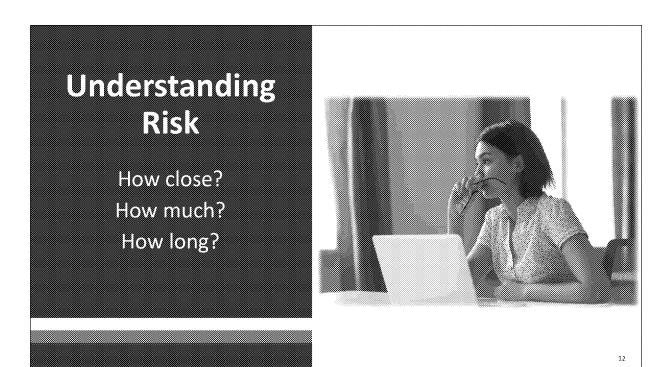


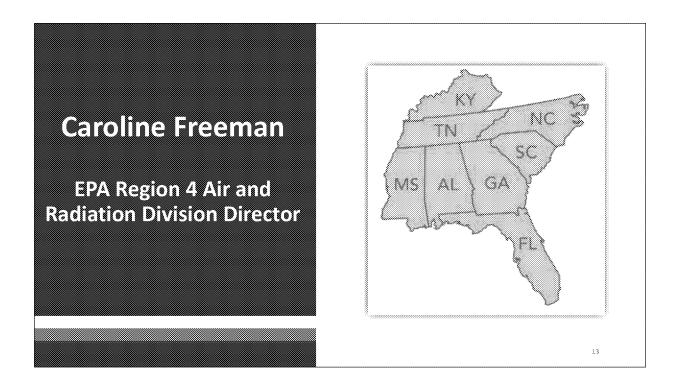






- Approximately 100 commercial sterilizers in the United States
- Sterilization Services of Tennessee is one of 23 with the highest risk
- More information on all facilities at <a href="https://www.epa.gov/eto">https://www.epa.gov/eto</a>





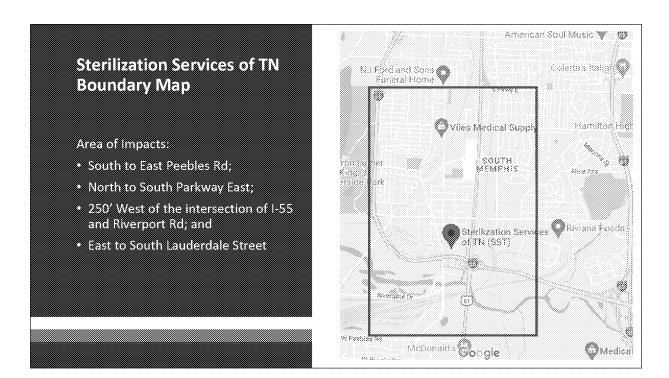
## **EPA Headquarters Modeling Analysis**

- EtO Uses
- Facility Processes
- Facility Equipment
- Weather
- Community Details

Modeling Analysis

Maps the Risk Caused by EtO from a Facility

1.4



#### Sterilization Services of Tennessee Memphis, Tennessee

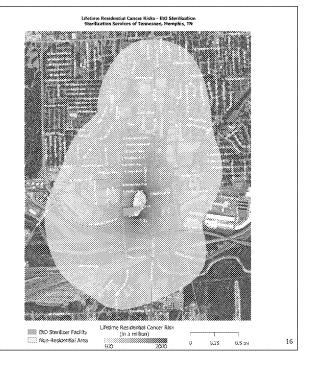
Maximum Risk Level: 2,000/Million

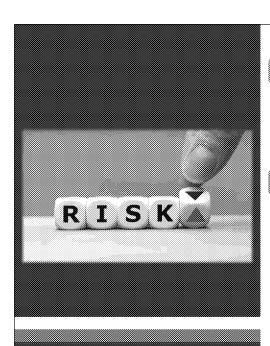
**Blue:** Estimated lifetime cancer risks of 100 to 2,000 in one million.

**Lifetime cancer risk** - breathe air containing EtO at the level estimated at that location for 24 hours a day, every day for 70 years.

This estimated risk is in addition to cancer risk from other causes.

For more information and to view this map online:

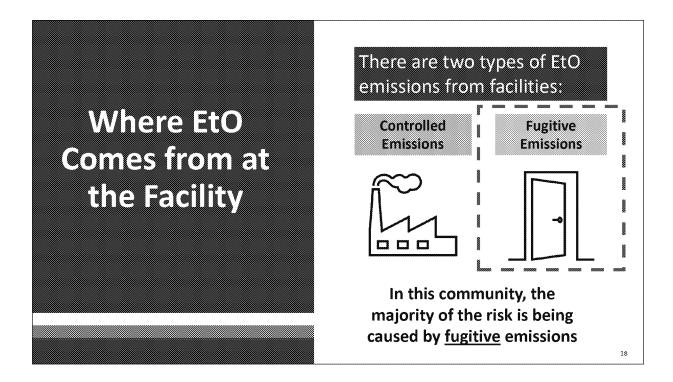


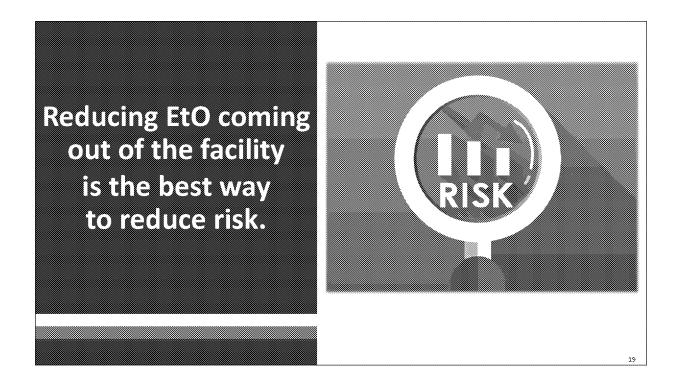


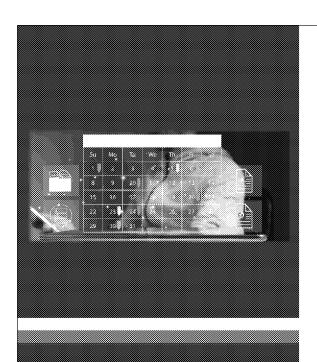
#### Recent Steps Taken to Learn about Bisk and Reduce It.

- July 2022: Complete analysis showing where, in which specific communities, risk is highest for people who live nearby.
- Continue to seek more immediate reductions of EtO coming out of facilities.

- 2016: Learn EtO is more dangerous when people breathe it in.
- 2018: Initial analysis showing that EtO might be causing risk near certain types of facilities.
- 2020-2022: Collect and verify data and complete analysis to understand more exactly where there is risk and why.







## Timeline

- New regulation to be proposed in the coming months.
- The public comment period will last 60 days.
- Final rule is expected in 2023.
- Once the rule is final, the Clean Air Act allows up to 2 or 3 years to comply with new requirements but EPA plans to solicit comments on a shorter period.
- Additional resources on the comment process are available here: https://www/epa.gov/eto/comment

## **Key Points**

EPA has learned that EtO is causing health risk in your community.

#### We are working to reduce this risk by:

- 1. Working across government and industry to reduce EtO coming from Sterilization Services of Tennessee.
- 2. We are updating air pollution regulations to be more protective of your health.
- 3. We are sharing these risk results with you, so you have the same information we have.

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# Dr. Michelle Taylor Shelby County Health

**Department Director** 



## **Sterilization Services of Tennessee**

- Began operations in Memphis in 1976
- EtO in use since at least 1979
- Permitted since 1985
- In compliance with the EPA's current rules and regulations regarding ethylene oxide (EtO)



## **Sterilization Services of Tennessee**

- Eight (8) employees
- Operates 24 hours per day, 7 days per week
- Provides sterilization of medical instruments for hospitals, clinics, surgical centers, dentist offices, etc.



## **Shelby County Health Department Actions**

- Collaborating with the Tennessee Department of Health and Tennessee Cancer Registry for a cancer incidence study (i.e. cancer cluster study) of the neighborhoods surrounding the facility.
  - Objective: To identify if there is a greater than expected number of cancer cases in the area around the facility compared to another region of Shelby County.
  - Study includes blood cancers (i.e. leukemia and lymphoma), as well as stomach and breast cancer



## **Community Resources**

- Tennessee Breast and Cervical Screening Program
  - o Shelby County Health Department
    - **901-545-8720.**
- Christ Community Health Services
  - o Third Street Health Center
    - **901-842-3166.**
- Baptist Women's Health Center
  - o Mobile mammography unit
    - 901-227-PINK (7465)
- Methodist/LeBonheur Healthcare
  - o Mobile Mammography
    - secureapps.methodisthealth.org/Mammo/



- In-person Participants: Proceed to a microphone. We will also read aloud some questions that have been provided on comment cards during the Q & A session.
- Zoom Participants: Enter your questions by using the Q&A function.

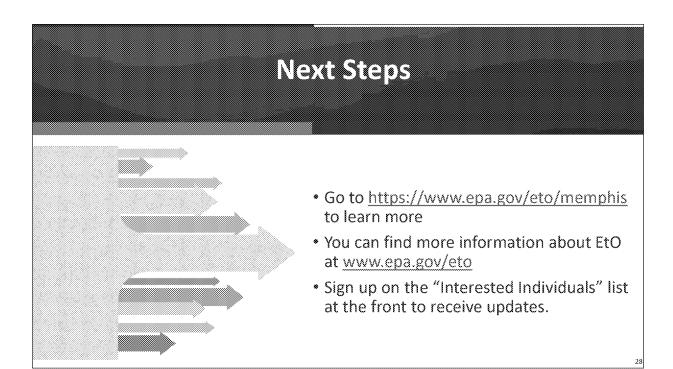


 Phone Participants: If you are listening on your phone and cannot access the Q&A function, press \*9 to let us know you have a question. Once we identify you by the last four digits of your phone number, press \*6 to unmute.



You may also submit questions to EPA by:

- Sending us an email at <u>Region4EtO@epa.gov</u>, and we will respond after the meeting
- Or give us a call at 800-241-1754



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## **Translation**

This evening's session will offer live interpretation through zoom online audio.

- To access the audio interpretation services, click the globe or interpretation button.
   Then select your language of choice, English, Spanish, or Chinese Simplified.
- La sesión de esta noche ofrecerá interpretación en vivo a través de audio zoom en línea. Para acceder a los servicios de interpretación de audio, haga clic en el botón de globo o interpretación. Luego seleccione su idioma preferido inglés, español o chino simplificado.
- · 今晚的会议将通过 Zoom 在线音频提供 现场口译。想要使用音频口译服务,请单 击地球图标或"口译"按钮。然后选择所 需语言:英语、西班牙语或简体中文。

Use the Q&A module to submit questions for the panel or the Chat feature to ask for technical assistance.

